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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/594,170	06/15/2000	Helmut Rudigier	622HE/48982	8885
7590 04/05/2004			EXAMINER	
CROWELL & MORING, LLP P.O. BOX 14300			ROJAS, OMAR R	
WASHINGTON, DC 20044-4300			ART UNIT	PAPER NUMBER
			2874	
		DATE MAILED: 04/05/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		09/594,170	RUDIGIER, HELMUT
Office Action Summary		Examiner	Art Unit
		Omar Rojas	2874
Period fo	The MAILING DATE of this communication ap	pears on the cover sheet with the	correspondence address
A SH THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. a period for reply specified above is less than thirty (30) days, a rep operiod for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be ly within the statutory minimum of thirty (30) o will apply and will expire SIX (6) MONTHS fro e, cause the application to become ABANDO	timely filed flays will be considered timely. flays mailing date of this communication. NED (35 U.S.C. § 133).
Status			
, —	•	s action is non-final. ince except for formal matters, p	
Disposit	ion of Claims		
5)□ 6)⊠ 7)⊠	Claim(s) <u>2-9,12-22,25-30,and 32-35</u> is/are per 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) <u>2-9,12,14-22,25-30 and 32-35</u> is/are Claim(s) <u>13</u> is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration.	
Applicat	ion Papers		
10)⊠	The specification is objected to by the Examina The drawing(s) filed on 21 July 2003 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E	accepted or b) objected to drawing(s) be held in abeyance. Setion is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).
Priority (under 35 U.S.C. § 119		
a)	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☒ None of: 1. ☒ Certified copies of the priority documen 2. ☐ Certified copies of the priority documen 3. ☐ Copies of the certified copies of the priority documen application from the International Burea See the attached detailed Office action for a list	ts have been received. ts have been received in Application ority documents have been received (PCT Rule 17.2(a)).	ation No ived in this National Stage
2) Notice 3) Information	ot(s) See of References Cited (PTO-892) See of Draftsperson's Patent Drawing Review (PTO-948) See of Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Ser No(s)/Mail Date	4) 🔀 Interview Summa Paper No(s)/Mail 5) 🔲 Notice of Informa 6) 🔲 Other:	

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DETAILED ACTION

Response to Amendment

1. With regards to the amendment filed on December 15, 2003, all the requested changes to the claims have been entered.

Drawings

2. The drawings were received on July 21, 2003. These drawings are acceptable.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. Claim 3 is vague because it is not clear as written whether the reflective layer of the glass body is the same as the reflective layer which equips the support, or whether they are distinct structures.
- 6. Claims 14 and 33 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: that the support is inserted in a slot of the switch body at a level of medium deepness. The use of the slot is essential to define the depth relationship of the support to the switch body.

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Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 8. Claims 2-3, 5-9, 15-17, 20-22, 25, 28-30, 32, and 34-35 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,275,626 to Laor.

Regarding claim 3, Laor teaches a switch (e.g., see Fig. 5) having at least one mirror surface (112, 114) comprising a reflective layer, a support (28) equipped with said reflective layer, wherein the support (28) and the mirror surface(s) (112,114) are arranged on a swiveling switch body (26), and wherein the support (28) inherently comprises a glass body provided on top and bottom sides with the mirror surfaces. See also Laor at column 5, lines 23-64.

Regarding claims 2, 5-9, 20, and 32, Laor at column 5, lines 32-50, appears to disclose or suggest all the limitations of claims 2, 5-9, 20, and 32.

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Regarding claim 15, the previous remarks concerning claim 3 are incorporate herein. It is further noted that support (28) of Laor appears to project from the switch body (26) in a substantially lug-like manner.

Regarding claim 16, the examiner incorporates the previous remarks and further notes that the applicant(s) is claiming the product including the process of making the optical switch (i.e., gluing the support to the switch body). Therefore, claim 16 is of "productby-process" nature. The courts have been holding for quite some time that the determination of the patentability of product-by-process claim is based on the product itself rather than on the process by which the product is made. In re Thorpe, 77 F.2d 695, 227 USPQ 964 (Fed. Cir. 1985). Patentability of claim to a product does not rest merely on a difference in the method by which that product is made. Rather, it is the product itself which must be new and unobvious. Applicant has chosen to claim the invention in the product form. Thus, a prior art product which possesses the claimed product characteristics can anticipate or render obvious the claimed subject matter regardless of the manner in which it is fabricated. A rejection based on 35 U.S.C. section 102 or alternatively on 35 U.S.C. section 103 of the status is eminently appropriate and acceptable. In re Brown and Saffer, 173 USPQ 685 and 688; In re Pilkington, 162 USPQ 147. Therefore, no patentable weight is given to the limitations of claim 16.

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Regarding claims 17, 21-22, and 34, note the previous remarks concerning claims 2, 5-9, 20, and 32.

Regarding claims 25, 28-30, and 35, Laor also appears to substantially disclose the claimed method. See the previous remarks.

Claim Rejections - 35 USC § 103

- 9. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 10. Claims 4, 12, 18-19, 26, and 27 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Laor.

Regarding claims 4, 18-19, and 26-27, the previous remarks are incorporated herein. Therefore, Laor further differs from claims 4, 18-19, and 26-27, in that the thickness of the glass support (28) is not expressly disclosed as being within the recited range(s) of claims 4, 18-19, or 26-27. However, finding an optimum thickness for the glass support (28) of Laor would be considered an obvious design choice, perhaps involving some routine experimentation. Thus, if the thickness of the reflector (28) in Laor is not inherently within the ranges specified by claims 4, 18-19, and 26-27, it would be obvious for one of ordinary skill in the art to determine an optimum size/thickness for the reflector which falls within the claimed ranges through routine experimentation.

Therefore, it would have been obvious to one of ordinary skill at the time of the claimed invention to obtain the invention specified by claims 4, 18-19, and 26-27.

Regarding claim 12, the previous remarks are incorporated herein. Laor is silent as to the material of the switch body (26). However, if the material of the switch body (26) was not inherently a material that can be cast or injection molded, it would be obviously expedient to use such a material in Laor for purposes of mass production. This is because it is well-known that many metals (i.e., aluminum, iron, etc.) can be cast and many types of plastics can be injection molded. Casting and injection molding are also well-known to be desirable processes in the mass production of manufactured devices. Thus, materials which can be adapted for use in such processes would be desirable to one of ordinary skill in the art. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the claimed invention to obtain the invention specified by claim 12.

Allowable Subject Matter

- 11. Claim 13 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 12. Claim 14 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.
- 13. Claim 33 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

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14. The following is a statement of reasons for the indication of allowable subject

matter: Regarding claim 13, it does not appear to be suggested by or obvious in view of

Laor to arrange his support (28) on a cuboid-shaped switch body in a surface-flush

manner in a recess. Regarding claims 14 and 33, it does not appear to be suggested

by or obvious in view of Laor to insert his support (28) at a cuboid-shaped switch body

at a level of medium deepness within a slot as suggested by claims 14 and 33.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Omar Rojas whose telephone number is (571) 272-2357

and whose e-mail address is omar.rojas@uspto.gov. The examiner can normally be

reached on Monday-Friday (7:00AM-3:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hemang Sanghavi, can be reached on (571) 272-2358. The central

facsimile number for regular and After Final communications is (703) 872-9306. The

examiner's RightFAX number is (571) 273-2357.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956.

Omar Rojas Patent Examiner

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or

April 1, 2004

HEMANG SANGHAVI PRIMARY EXAMINER